

Fig. 1

Figure 2: Chromatogram

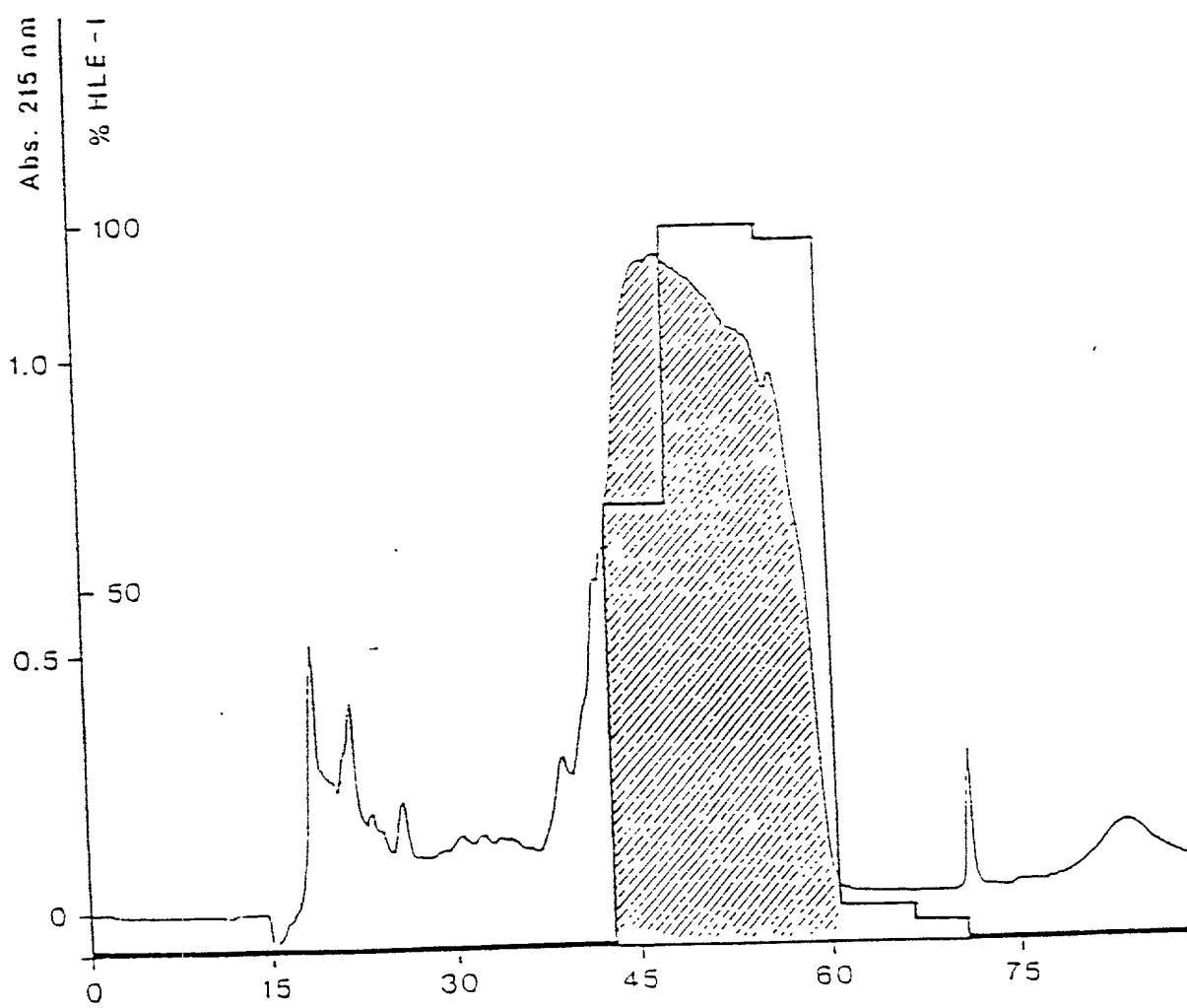


Fig. 2

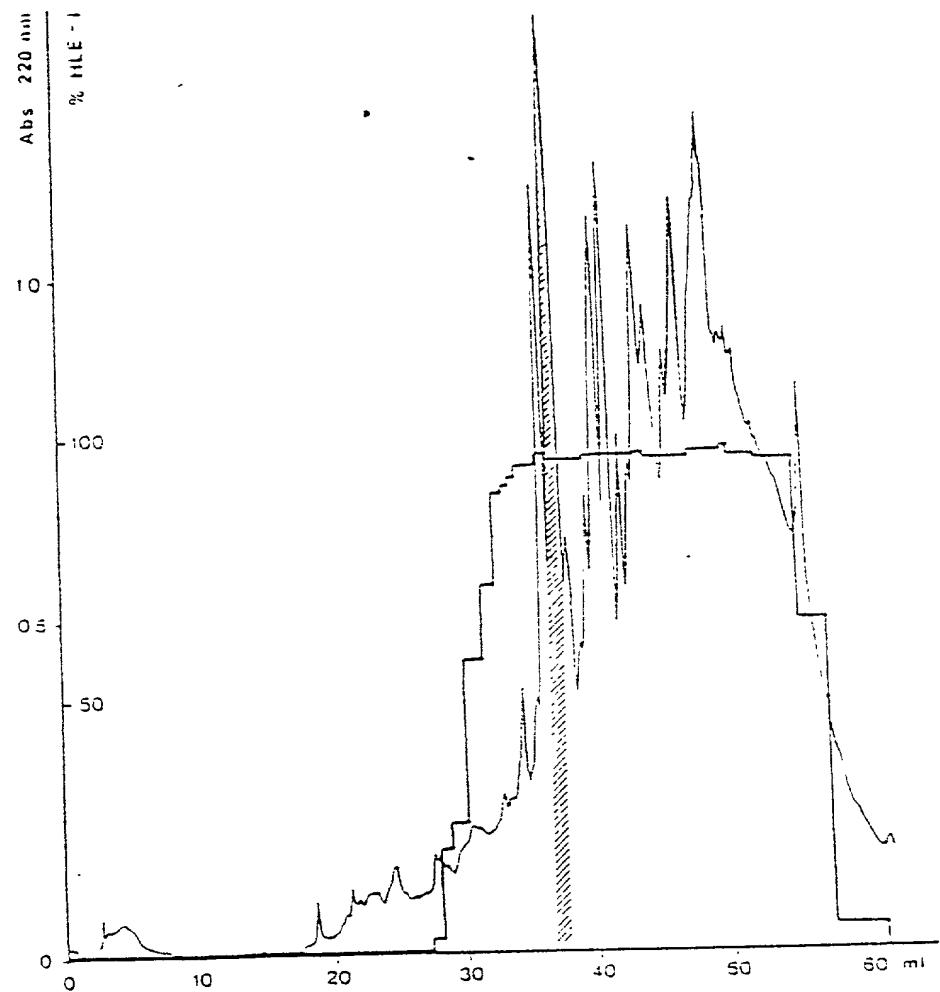


Fig. 3

"Figure 4" is a graph of

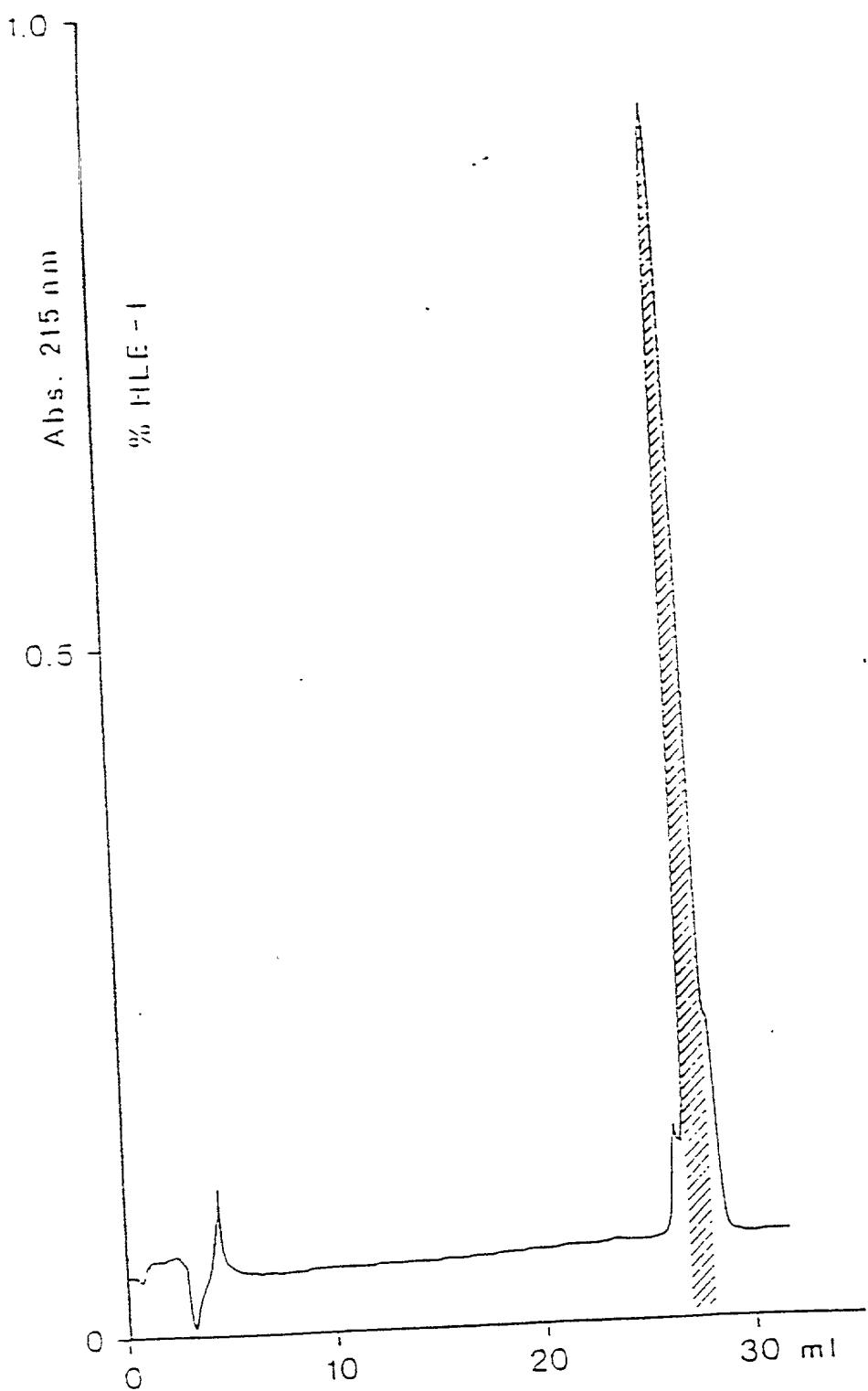


Fig. 4

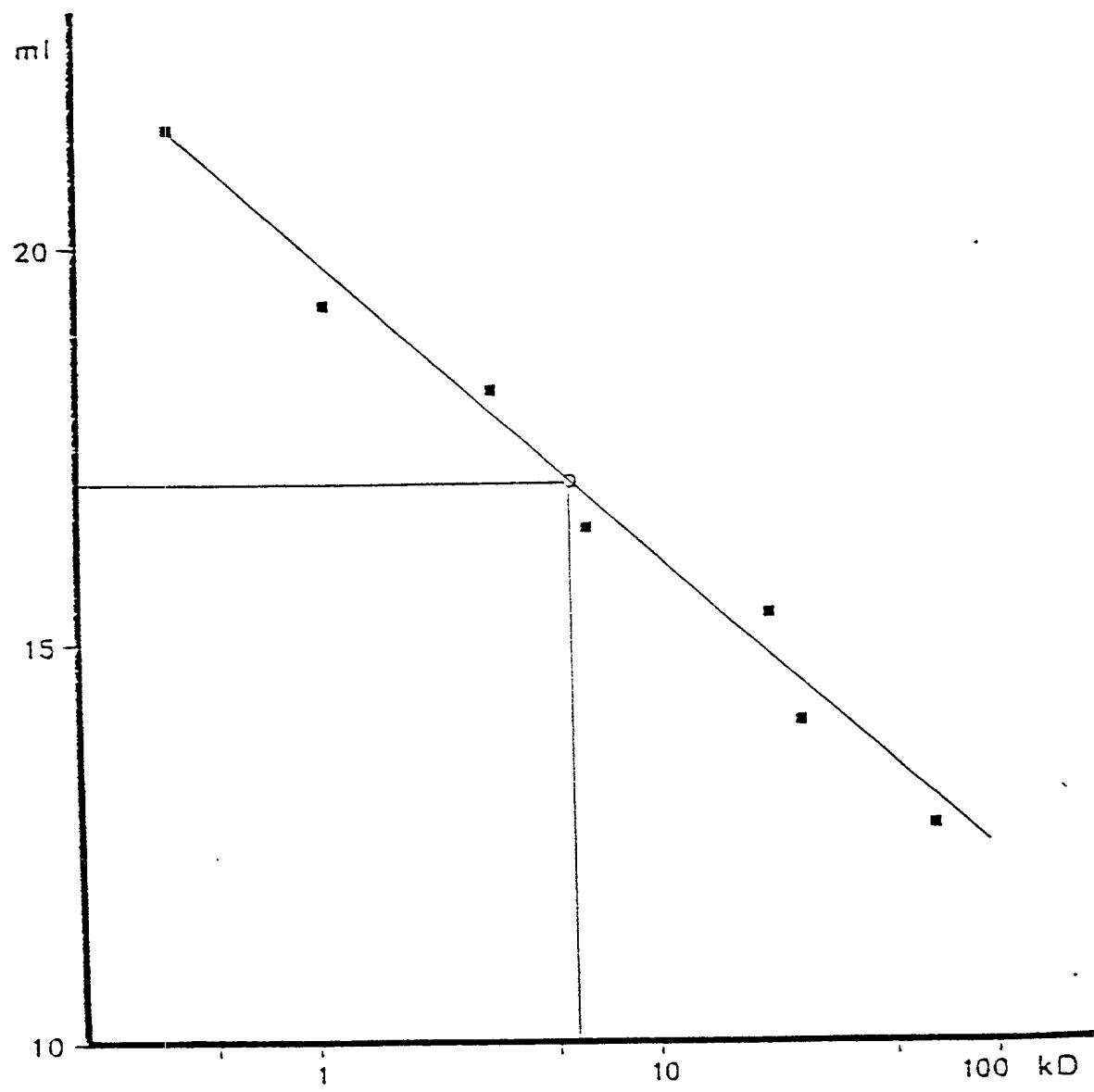
"I<sub>0</sub> (D) 10<sup>-12</sup> A" "E (V)" "kD (V)"

Fig. 5

"FILE PHOTO" SOURCE: AP/WIDEWORLD

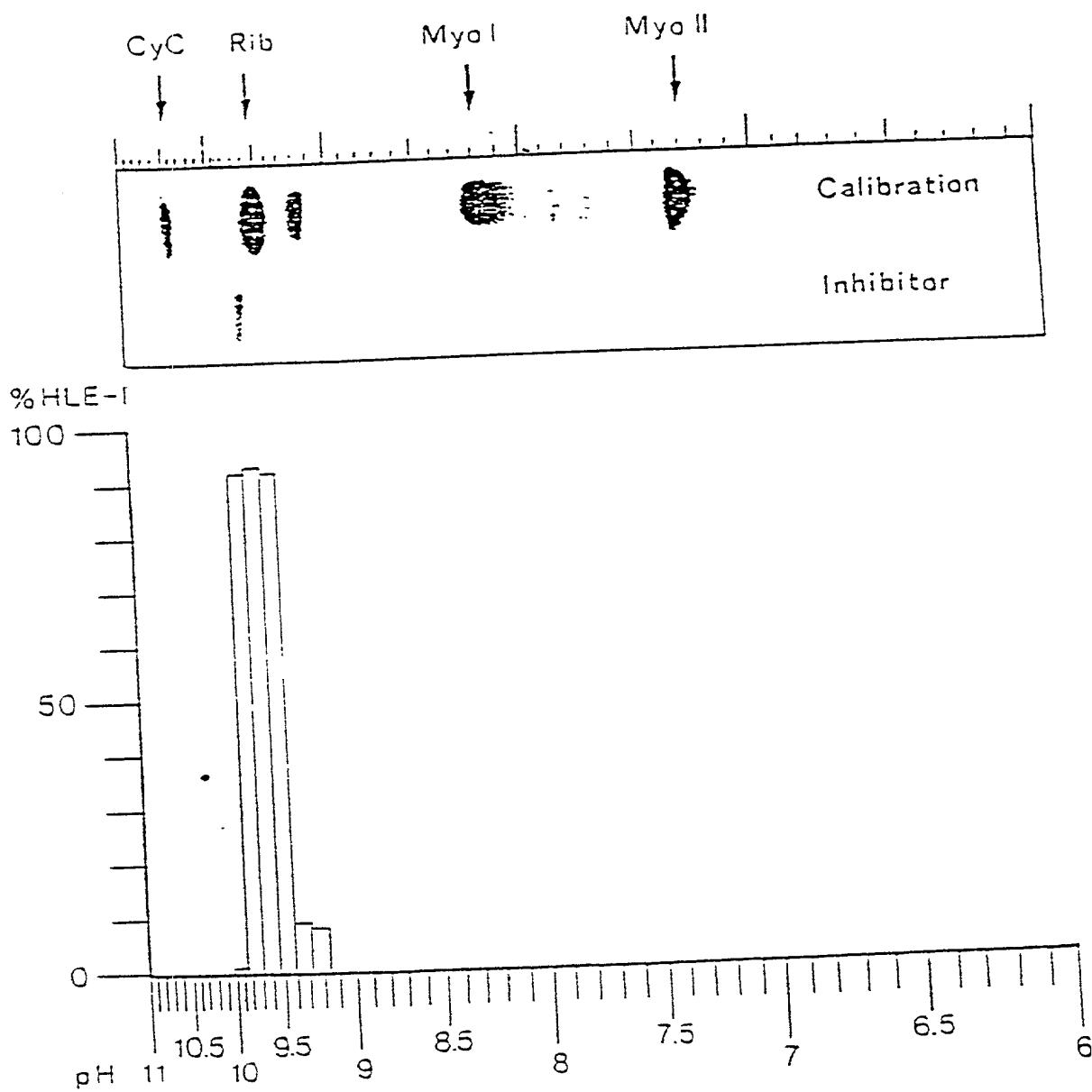


Fig. 6

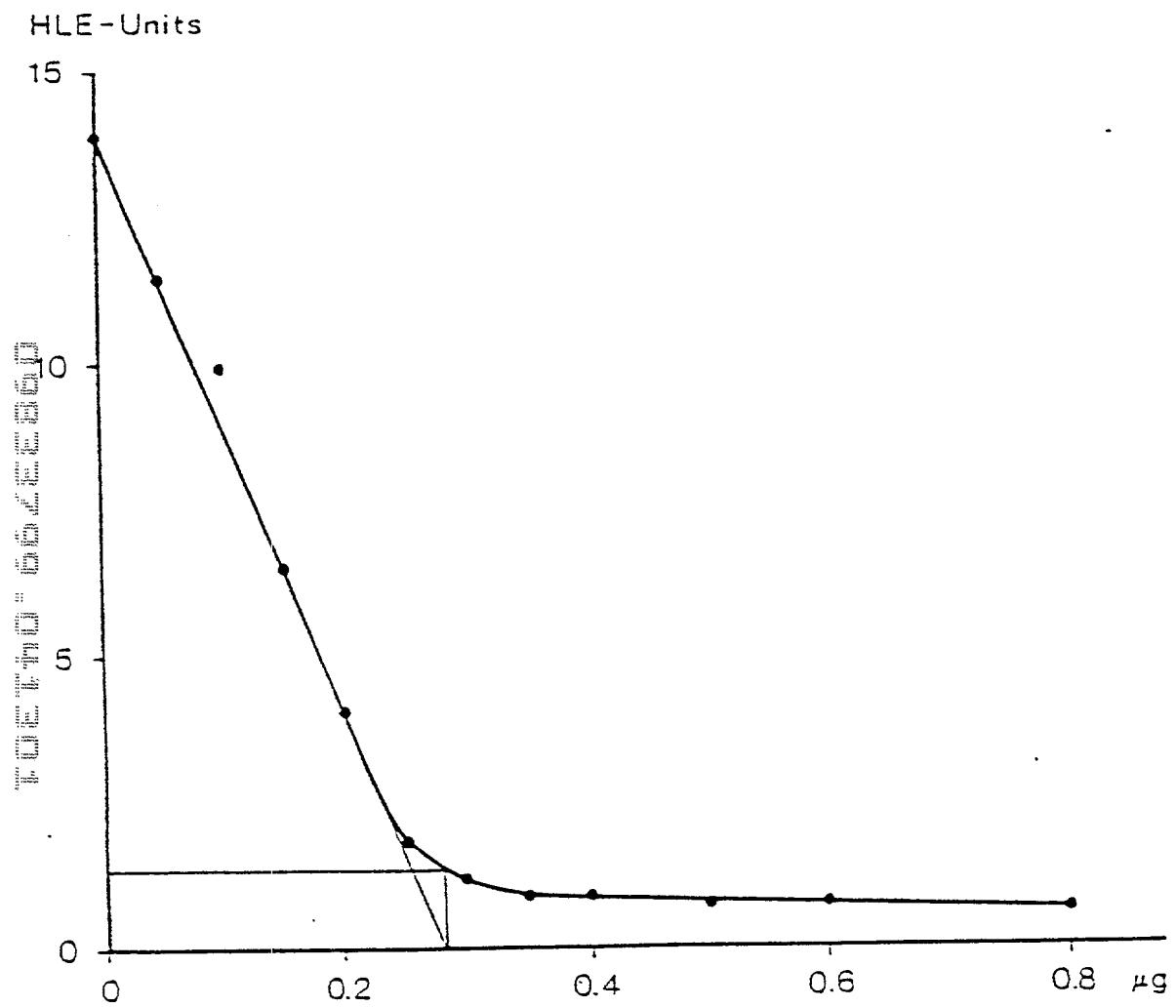


Fig. 7

## FIGURE 28

## PROTEIN SEQUENCE OF ELASTASE INHIBITOR

DIRECT SEQUENCE — T10

Pro Gly Ser Cys Pro Ile Ile Leu Ile Arg Gys Ala

Met Leu Arg Pro Pro Pro Arg Cys Leu Lys Asp Thr

— T6 — T4 —

Asp Glu Pro Glu Ile Lys Cys Glu Glu Ser

— T4 — C7 = 9 — T1 — T9 —

Gly Glu Met Ala Cys Phe Val Pro 57 Glu

## XX=UNIDENTIFIED T=TRYPTIC FRAGMENTS C=CHYMOTRYPTIC FRAGMENTS

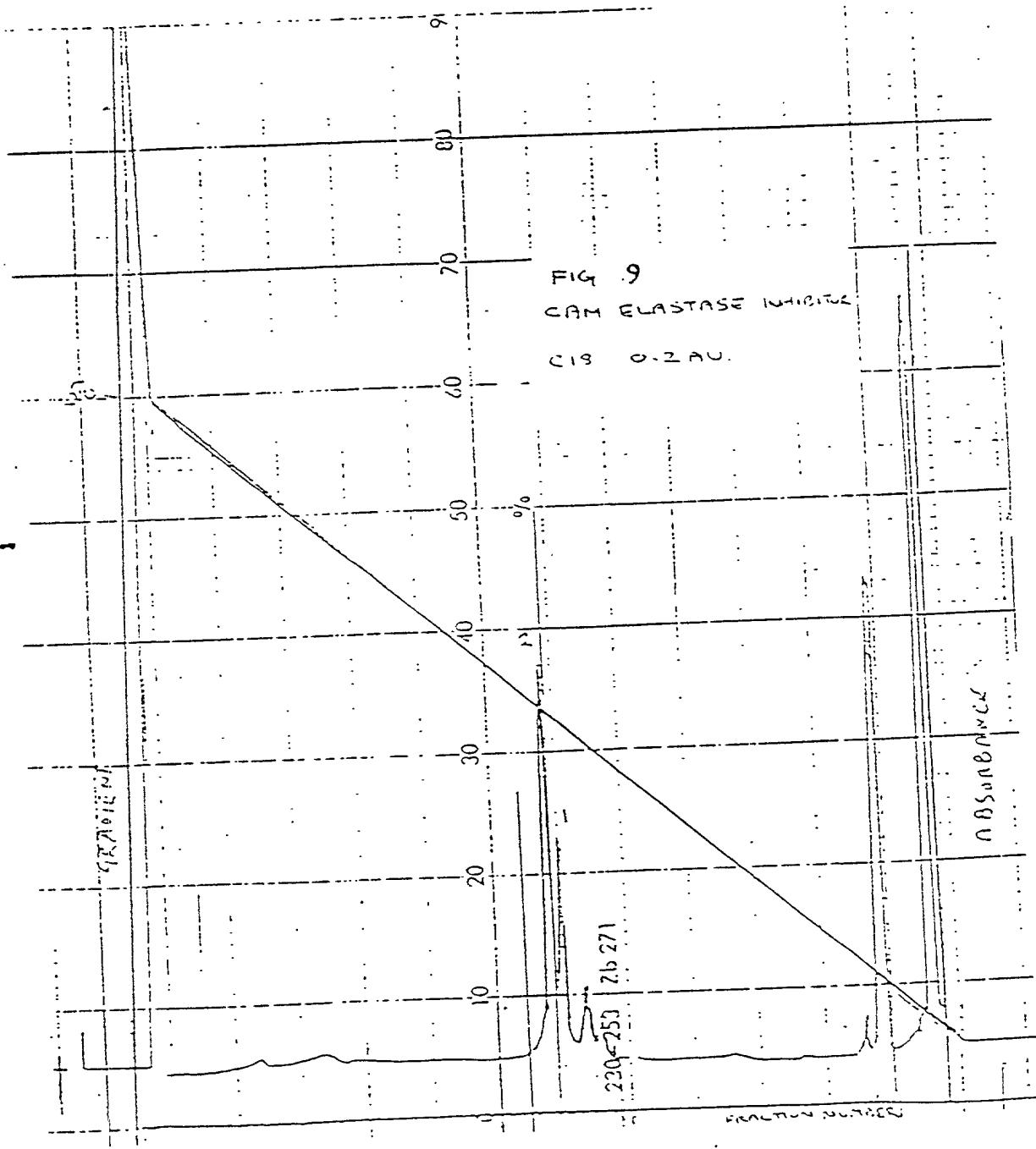


FIG. 9.

FIG 10

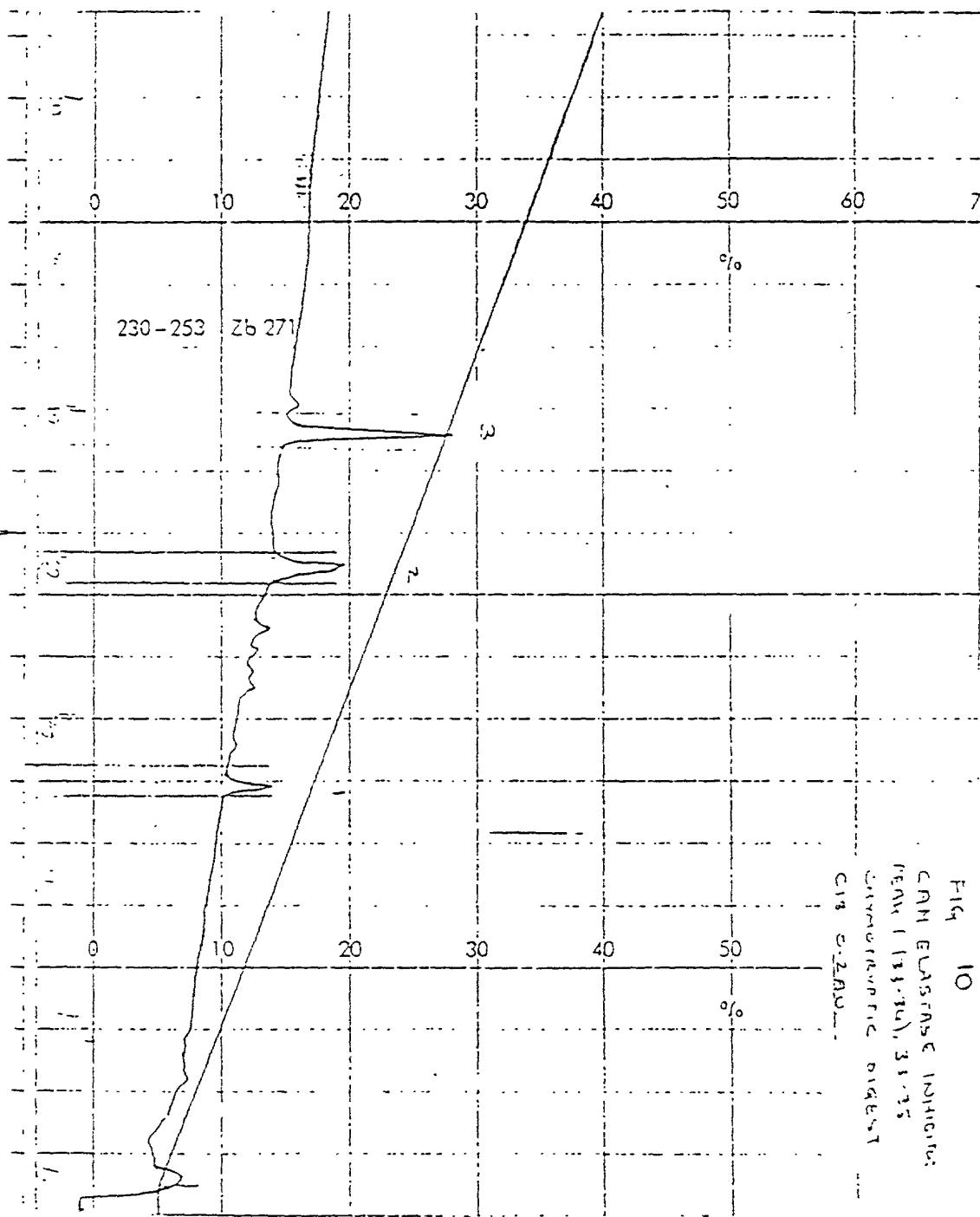


FIG 10  
 X-RAY DIFFRACTION PATTERNS  
 (PEAK 1 (230-253), 31.75  
 CRYSTALLINE STATE  
 C10 C2000

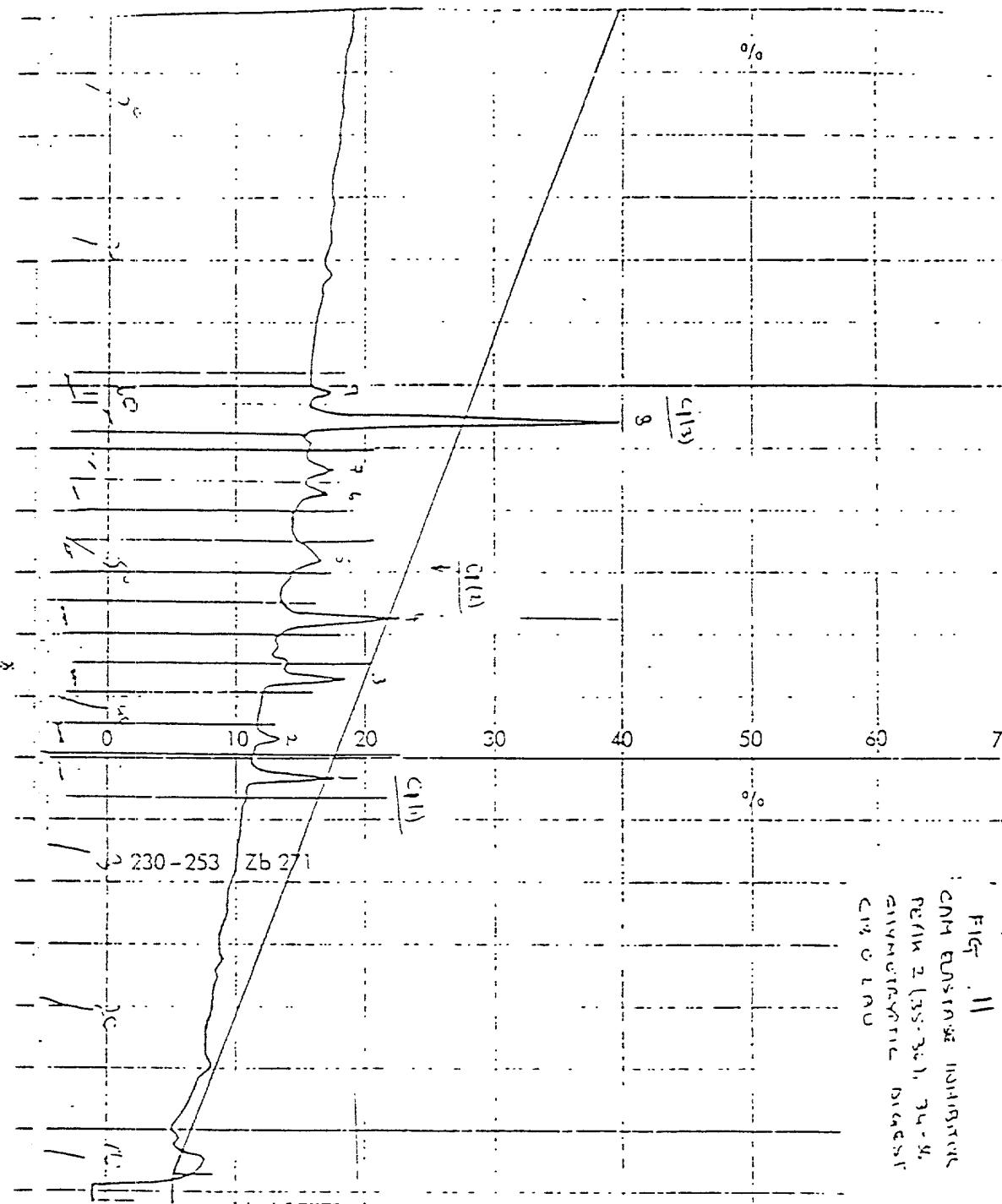


FIG. 11

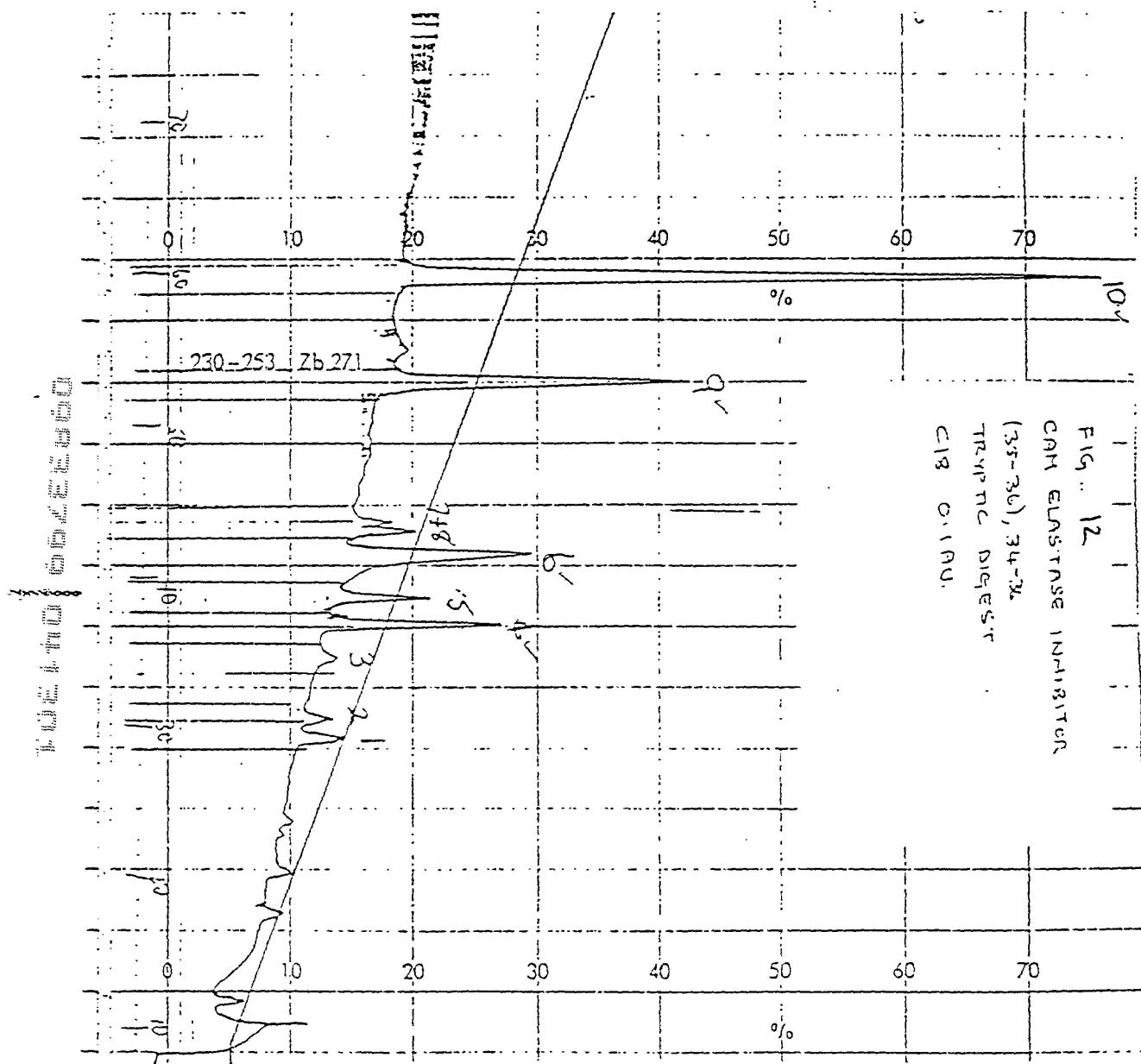


Fig 12

Figure 13

AlaGlnGluProValLysGlyProValSerThr

1      →      ELI1  
 AATT CGAGCT CGGT ACCATA CCTGCATATGCTCAAGAACCAAGTTAAAGGTCTGTCTACT  
 GCTCGAGCCATGGTATGGACGTATACGAGTTCTGGTCAATTCCAGGACACAGATGA

63      →      ELI3  
 AAGCCAGGTTCTTGTCTATTATCTGATT CGTGCCTATGTTAAACCCACCTAACCGT  
 TT CGGTCC AAGAACAGGATAATAGAACTAAGCAACGCGATA CAATTGGTGGATTGGCA  
 ELI2 ←

123      →      ELI5  
 TGTTTGAAGGACACTGATT GTCCAGGTATCAAAAAGT GCTGTGAAGGTTCTGCGGTATG  
 ACAAAACTT CCTGTGACTAACAGGTCCATAGTTTCACGACACTTCCAAGGACGCCATAC  
 ELI4 ←

183      AlaCysPheValProGlnEndEnd  
 GCTTGTTCGTTCCACAATAATAG

CGAACAAAGCAAGGTGTTATTATCCTAG   210  
 ELI6 ←

Figure 14

Ala Gln Glu Pro Val Lys Gly Pro Val Ser Thr Lys Pro Gly Ser Cys  
GCG CAA GAG CCA GTC AAA GGT CCA GTC TCC ACT AAG CCT GGC TCC TGC

5' DNA

Sequence

Pro Ile Ile Leu Ile Arg Cys Ala Met Leu Asn Pro Pro Asn Arg Cys  
CCC ATT ATC TTG ATC CGG TGC GCC ATG TTG AAT CCC CCT AAC CGC TGC

Leu Lys Asp Thr Asp Cys Pro Gly Ile Lys Lys Cys Cys Glu Gly Ser

TTG AAA GAT ACT GAC TGC CCA GGA ATZ AAG AAP TGC TGT GAA GGC TCT

Cys Gly Met Ala Cys Phe Val Pro Gln  
TGC GGG ATG GCC TGT TTC GTT CCC CAG

Z = T, C or A

P = A or G

**Figure 1.5**

Ala Gln Glu Pro Val Lys Gly Pro Val Ser Thr Lys Pro Gly Ser Cys  
 GCG CAA GAG CCA GTC AAA GGT CCA GTC TCC ACT AAG CCT GGC TCC TGC

5' DNA

Sequence

Pro Ile Ile Leu Ile Arg Cys Ala Met Leu Asn Pro Pro Asn Arg Cys  
 CCC ATT ATC TTG ATC CGG TGC GCC ATG TTG AAT CCC CCT AAC CGC TGC

Leu Lys Asp Thr Asp Cys Pro Gly Ile Lys Lys Cys Cys Glu Gly Ser

TTG AAA GAT ACT GAC TGC CCA GGA ATZ AAG AAP TGC TGT GAA GGC TCT

Cys Gly Met Ala Cys Phe Val Pro Gln

TGC GGG ATG GCC TGT TTC GTT CCC CAG TAG GAGGGAGCCGGTCCTGCTGCACCTGT

GCCGTCCCCAGAGCTACAGGCCCATCTGGTCTTAAGTCCCTGCTGCCCTCCCTCCACACTGTCCA

TTCTTCCTCCATTCAAGGATGCCACGGCTGGAGCTGCCTCTCATCCACTTCCAATAAAAGAGTTCCG

GAATTC

Poly A 3'

signal

Z = T, C or A

P = A or G

### FIGURE 16

Cont'd 16b of 19

## FIGURE 16 CONTINUED

190

210

230

AGTCTCCACTAACGCCTGGCTCCTGCCCTATTATCTTGATCCGGTGCGCCATGTTGAATCC  
 oValSerThrLysProGlySerCysProIleIleLeuIleArgCysAlaMetLeuAsnPr

250

270

290

CCCTAACCGCTGCTTGAAAGATACTGACTGCCAGGAATCAAGAAGTGCTGTGAAGGCTC  
 oProAsnArgCysLeuLysAspThrAspCysProGlyIleLysLysCysCysGluGlySe

310

330

350

TTGCGGGATGGCCTGTTGTTCCCCAGTGAGAGGGAGCCGGTCCTGCTGCACCTGTGC  
 rCysGlyMetAlaCysPheValProGlnEnd

370

390

410

CGTCCCCAGAGCTACAGGCCCCATCTGGTCCTAACGTCCCTGCTGCCCTTCCCCCTCCAC

430

450

470

ACTGTCCATTCTTCCTCCATTCAAGGATGCCACGGCTGGAGCTGCCTCTCTCATCCACT

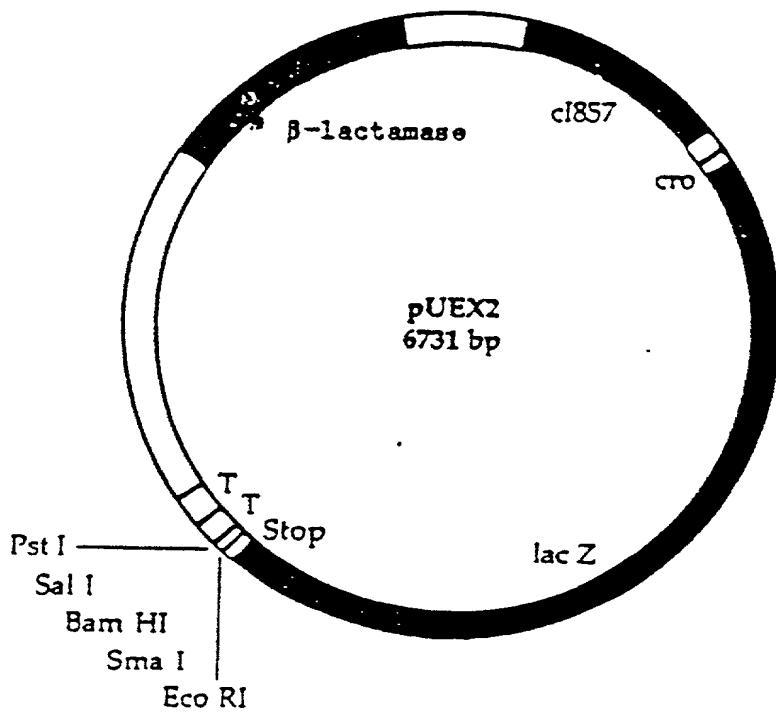
490

TTCCAATAAAGAGTTCCCGAATTC

Poly A

EcoRI

signal



pUEX2      EcoRI      SmaI      BamHI      SalI      PstI  
 |      |      |      |      |  
 GAA TTC CCG GGG ATC CGT CGA CCT GCA GCC AAG CTT GCT GAT TGA  
 Glu Phe Pro Gly Ile Arg Arg Pro Ala Ala Lys Leu Ala Asp \*\*\*

FIG 17

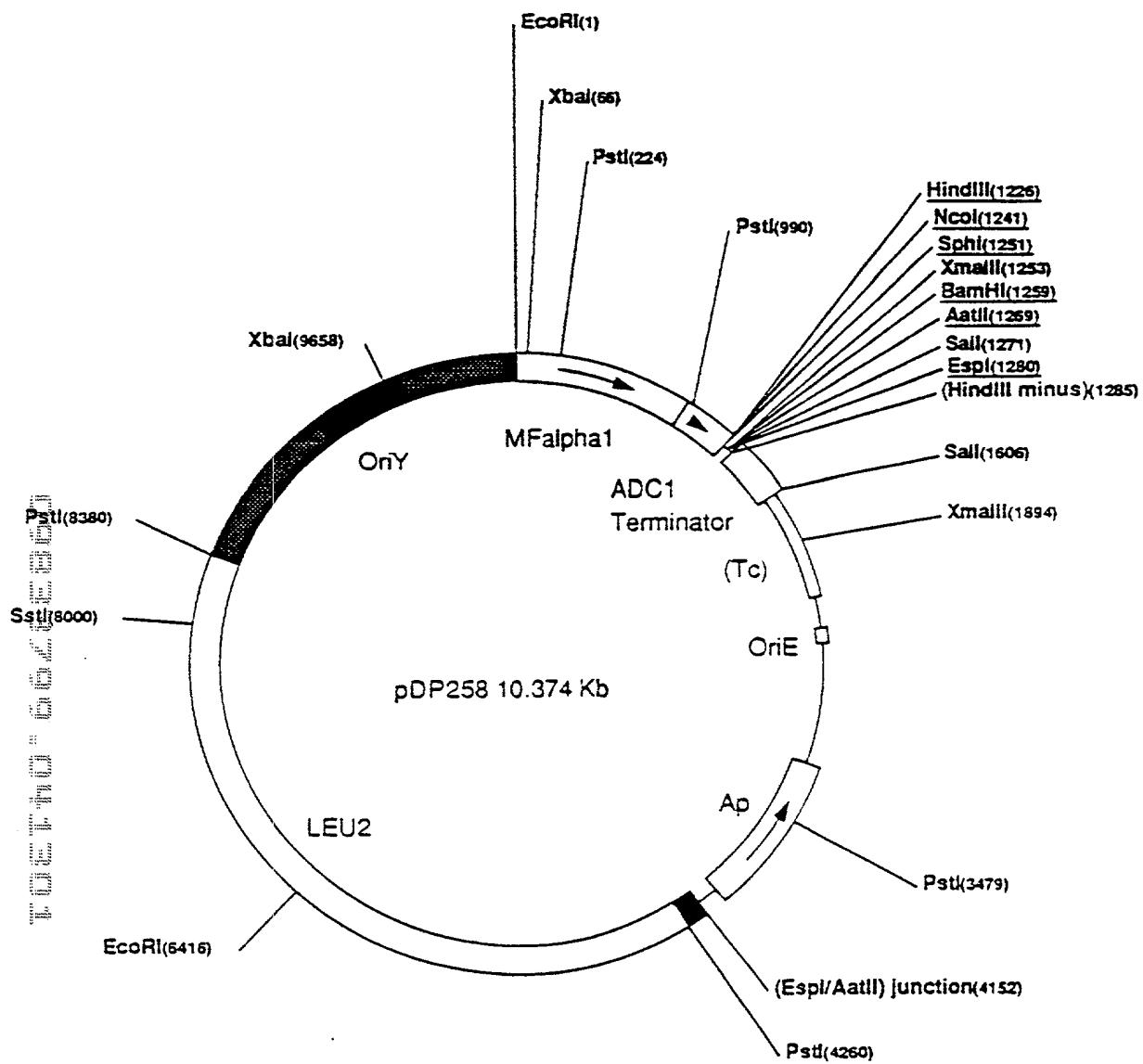


FIG 18

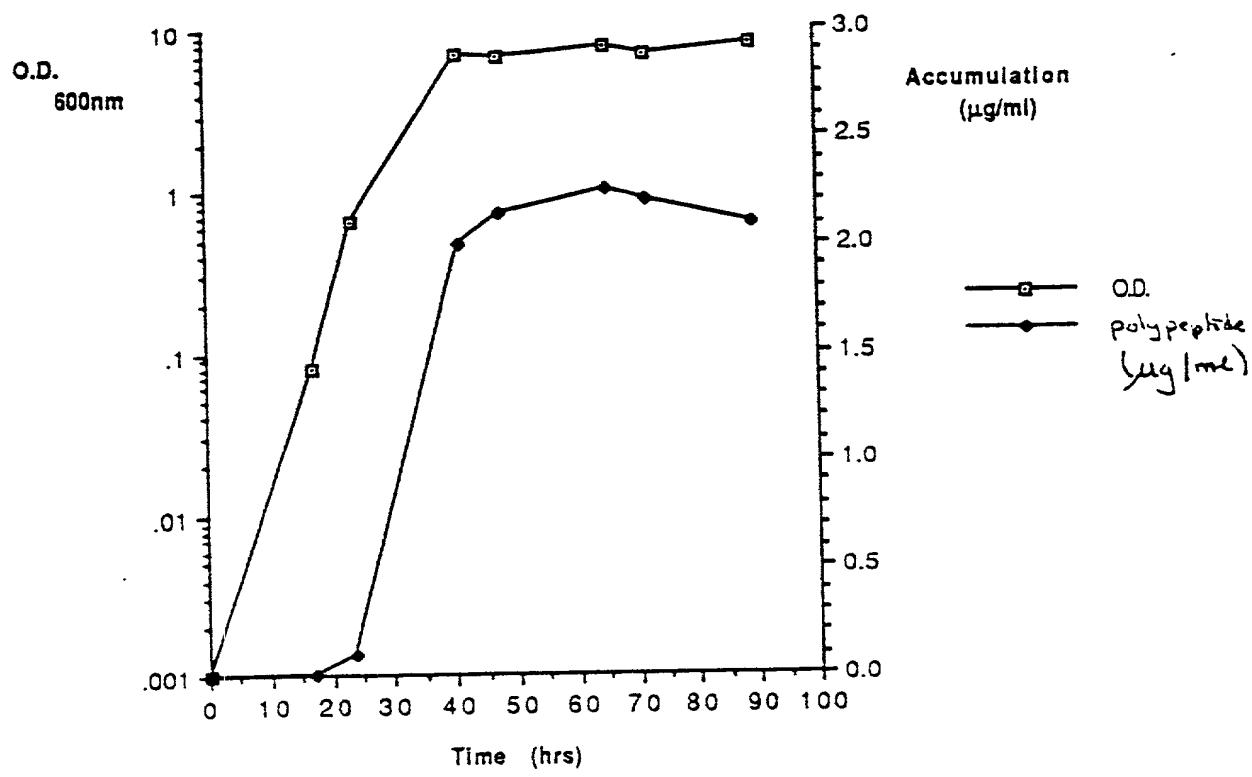


FIG 19